## In the Claims:

OLC Claim 1. (Previously Amended) A modified anti-viral peptide comprising:

a peptide comprising an amino acid sequence selected from the group consisting of SEQ ID NO: 1, SEQ ID NO: 3, SEQ ID NO: 4, and SEQ ID NO: 5, SEQ ID NO: 117, SEQ ID NO: 118, SEQ ID NO: 119, SEQ ID NO: 534, SEQ ID NO: 535, SEQ ID NO: 536, SEQ ID NO: 537, SEQ ID NO: 538, SEQ ID NO: 539, SEQ ID NO: 540, and SEQ ID NO: 541, and that exhibits anti-viral activity against human immunodeficiency virus (HIV), and

a succinimidyl or maleimide containing group which is reactive with amino groups, hydroxyl groups, or thiol groups on blood components to form stable covalent bonds.

## Claim 2. (CANCELED)

Claim 3. (Previously Amended) The modified peptide of claim 1 wherein said succinimidyl or maleimide containing group is a maleimido containing group which is reactive with a thiol group on a blood protein.

Claim 4. (Previously Amended) The modified peptide of claim 1 wherein said peptide is DP 178 and comprises the amino acid sequence of SEQ ID NO:1.

## Claim 5. (CANCELED)

Claim 6. (Previously Amended) The modified peptide of claim 1 wherein said peptide is selected from the group consisting of SEQ ID NO: 3, SEQ ID NO: 4, and SEQ ID NO: 5, SEQ ID NO: 117, SEQ ID NO: 118, SEQ ID NO: 119, SEQ ID NO: 534, SEQ ID NO: 535, SEQ ID NO: 536, SEQ ID NO: 537, SEQ ID NO: 538, SEQ ID NO: 539, SEQ ID NO: 540, and SEQ ID NO: 541.

## Claims 7-18. (CANCELED)

- Claim 19. (Previously Amended) A composition for use in the prevention and/or treatment of acquired immune deficiency syndrome (AIDS) comprising a peptide wherein said peptide comprises the amino acid sequence selected from the group consisting of SEQ ID NO: 1, SEQ ID NO: 3, SEQ ID NO: 4, and SEQ ID NO: 5, SEQ ID NO: 117, SEQ ID NO: 118, SEQ ID NO: 119, SEQ ID NO: 534, SEQ ID NO: 535, SEQ ID NO: 536, SEQ ID NO: 537, SEQ ID NO: 538, SEQ ID NO: 539, SEQ ID NO: 540, and SEQ ID NO: 541, and that exhibits anti-viral activity against human immunodeficiency virus (HIV), modified with a succinimidyl or maleimide containing group which is reactive with amino groups, hydroxyl groups, or thiol groups on blood components to form stable covalent bonds.
- Claim 20. (Previously Amended) The composition of claim 19 wherein said succinimidyl or maleimide containing group is a maleimide containing group which is reactive with a thiol group on a blood protein.

Claim 21. (Previously Amended) The composition of claim 20 wherein said peptide is DP 178 comprising the amino acid sequence of SEQ ID NO:1.

Claims 22-30. (CANCELED)

Claim 31. (Previously Added) The composition of claim 19 wherein said peptide comprises an amino acid sequence selected from the group consisting of SEQ ID NO: 3, SEQ ID NO: 4, and SEQ ID NO: 5, SEQ ID NO: 117, SEQ ID NO: 118, SEQ ID NO: 119, SEQ ID NO: 534, SEQ ID NO: 535, SEQ ID NO: 536, SEQ ID NO: 537, SEQ ID NO: 538, SEQ ID NO: 539, SEQ ID NO: 540, and SEQ ID NO: 541.

- Claim 32. (Previously Added) A conjugated peptide comprising the modified antiviral peptide of claim 1 covalently bonded to a blood component.
- Claim 33. (Previously Added) The conjugated peptide of claim 32 wherein said succinimidyl or maleimide containing group is a maleimide containing group which is reactive with a thiol group on a blood protein.
- Claim 34. (Previously Added) The conjugated peptide of claim 32, wherein said modified anti-viral peptide comprises the amino acid sequence of SEQ ID NO:1.
- Claim 35. (Previously Added) The conjugated peptide of claim 32, wherein said modified anti-viral peptide comprises an amino acid sequence selected from the group consisting of SEQ ID NO: 3, SEQ ID NO: 4, and SEQ ID NO: 5, SEQ ID NO: 117, SEQ ID NO: 118, SEQ ID NO: 119, SEQ ID NO: 534, SEQ ID NO: 535, SEQ ID NO: 536, SEQ ID NO: 537, SEQ ID NO: 538, SEQ ID NO: 539, SEQ ID NO: 540, and SEQ ID NO: 541.
  - Claim 36. (Previously Added) A composition comprising the modified anti-viral peptide of claim 1.
  - Claim 37 (Previously Added) The composition of claim 36 wherein said succinimidyl or maleimide containing group is a maleimide containing group which is reactive with a thiol group on a blood protein.
  - Claim 38. (Previously Added) The composition of claim 36 wherein said modified anti-viral peptide comprises the amino acid sequence of SEO ID NO:1.

Claim 39. (Previously Added) The composition of claim 36 wherein said modified anti-viral peptide comprises an amino acid sequence selected from the group consisting of SEQ ID NO: 3, SEQ ID NO: 4, SEQ ID NO: 5, SEQ ID NO: 117, SEQ ID NO: 118, SEQ ID NO: 119, SEQ ID NO: 534, SEQ ID NO: 535, SEQ ID NO: 536, SEQ ID NO: 537, SEQ ID NO: 538, SEQ-ID-NO:-539, SEQ-ID NO: 540, and SEQ ID NO: 541.

Claim 40. (Previously Added) A composition comprising the conjugated peptide of claim 31.

Claim 41. (Previously Added) The composition of claim 40 wherein said succinimidyl or maleimide containing group is a maleimide containing group which is reactive with a thiol group on a blood protein.

Claim 42. (Previously Added) The composition of claim 40 wherein said modified anti-viral peptide comprises the amino acid sequence of SEQ ID NO:1.

Claim 43. (Previously Added) The composition of claim 40 wherein said modified anti-viral peptide comprises an amino acid sequence selected from the group consisting of SEQ ID NO: 3, SEQ ID NO: 4, and SEQ ID NO: 5, SEQ ID NO: 117, SEQ ID NO: 118, SEQ ID NO: 119, SEQ ID NO: 534, SEQ ID NO: 535, SEQ ID NO: 536, SEQ ID NO: 537, SEQ ID NO: 538, SEQ ID NO: 539, SEQ ID NO: 540, and SEQ ID NO: 541.

Claim 44. (Previously Added) A method of treating human immunodeficiency virus (HIV) infection in a patient, comprising administering to said patient an effective amount of the modified anti-viral peptide of claim 1.

Claim 45. (Previously Added) The method of claim 44 wherein said succinimidyl or maleimide containing group is a maleimide containing group which is reactive with a thiol group on a blood protein.

Claim 46. (Previously Added) The method of claim 44 wherein said modified antiviral peptide comprises the amino acid sequence of SEQ ID NO:1.

Claim 47. (Previously Added) The method of claim 44 wherein said modified antiviral peptide comprises an amino acid sequence selected from the group consisting of SEQ ID NO: 3, SEQ ID NO: 4, and SEQ ID NO: 5, SEQ ID NO: 117, SEQ ID NO: 118, SEQ ID NO: 119, SEQ ID NO: 534, SEQ ID NO: 535, SEQ ID NO: 536, SEQ ID NO: 537, SEQ ID NO: 538, SEQ ID NO: 539, SEQ ID NO: 540, and SEQ ID NO: 541.

Claim 48. (Previously Added) A method of treating human immunodeficiency virus (HIV) infection in a patient, comprising:

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reacting the modified anti-viral peptide of claim 1 for a time and under conditions effective to form a covalent bond between said modified anti-viral peptide and said blood component, thereby forming a conjugate; and administering said conjugate to said patient.

Claim 49. (Previously Added) The method of claim 48 wherein said succinimidyl or maleimide containing group is a maleimide containing group which is reactive with a thiol group on a blood protein.

NA Claim 50. (Previously Added) The method of claim 48 wherein said modified antiviral peptide comprises the amino acid sequence of SEQ ID NO:1. Claim 51. (Previously Added) The method of claim 48 wherein said modified antiviral peptide comprises an amino acid sequence selected from the group consisting of SEQ ID NO: 3, SEQ ID NO: 4, and SEQ ID NO: 5, SEQ ID NO: 117, SEQ ID NO: 118, SEQ ID NO: 119, SEQ ID NO: 534, SEQ ID NO: 535, SEQ ID NO: 536, SEQ ID NO: 537, SEQ ID NO: 538, SEQ ID NO: 539, SEQ ID NO: 540, and SEQ ID NO: 541.

(Currently Amended) The modified anti-viral peptide of claim 1 having the formula:

((SEQ ID NO:1)-Lys-( $\epsilon$ -MPA)).

(Previously Added) The composition of claim 19 comprising the modified peptide formula:

((SEQ ID NO:1)-Lys-( $\epsilon$ -MPA)).

NR 54. (Currently Amended) The conjugated peptide of claim 32 comprising the modified peptide formula:

((SEQ ID NO:1)-Lys- $(\epsilon$ -MPA)).

(Currently Amended) The composition of claim 36 comprising the modified peptide formula:

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((SEQ ID NO:1)-Lys-( $\epsilon$ -MPA)).

M2 56. (Currently Amended) The composition of claim 40 wherein the conjugated peptide comprises the modified peptide of formula:

((SEQ ID NO:1)-Lys- $(\epsilon$ -MPA)).

(Currently Amended) The method of claim 44 wherein the modified peptide has the formula:

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((SEQ ID NO:1)-Lys- $(\epsilon$ -MPA)).

58. (Currently Amended) The method of claim 48 wherein the modified peptide has the formula:

((SEQ ID NO:1)-Lys-( $\epsilon$ -MPA)).

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